Davis Report, Item 1* - Comparison of Overall Screen Layouts of 20-20 Design and ProKitchen

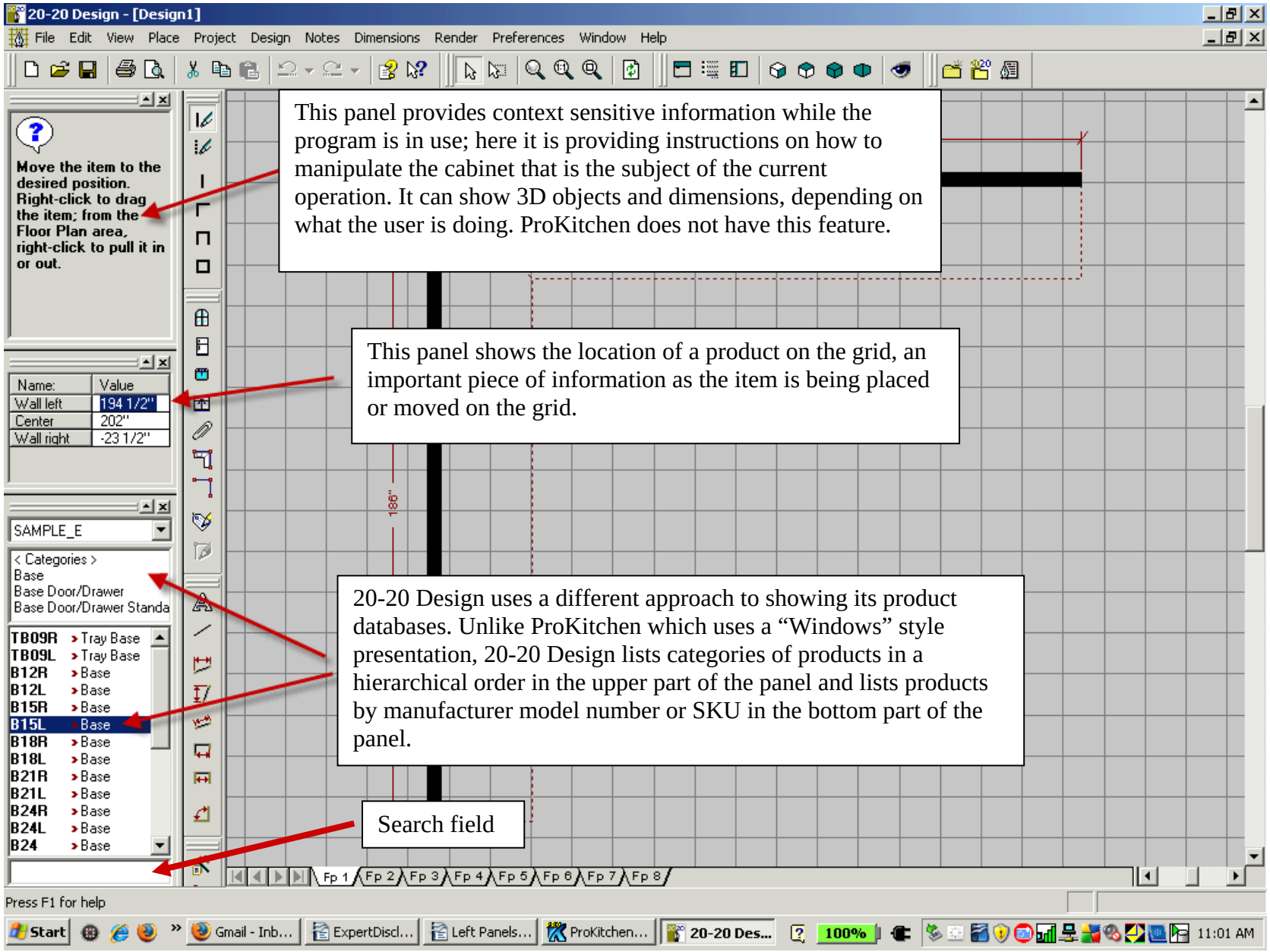
Dr. Randall Davis compares the overall layouts of ProKitchen and 20-20 Design, noting the presence of a large work-area on the right side of the screen and a series of sub-windows, or "panels", on the left side of the screen.

This layout is common to many computer aided design programs. The area to the right is often called the "work area", where the user creates the design. The use of a "grid" pattern is common to almost all computer aided design programs.

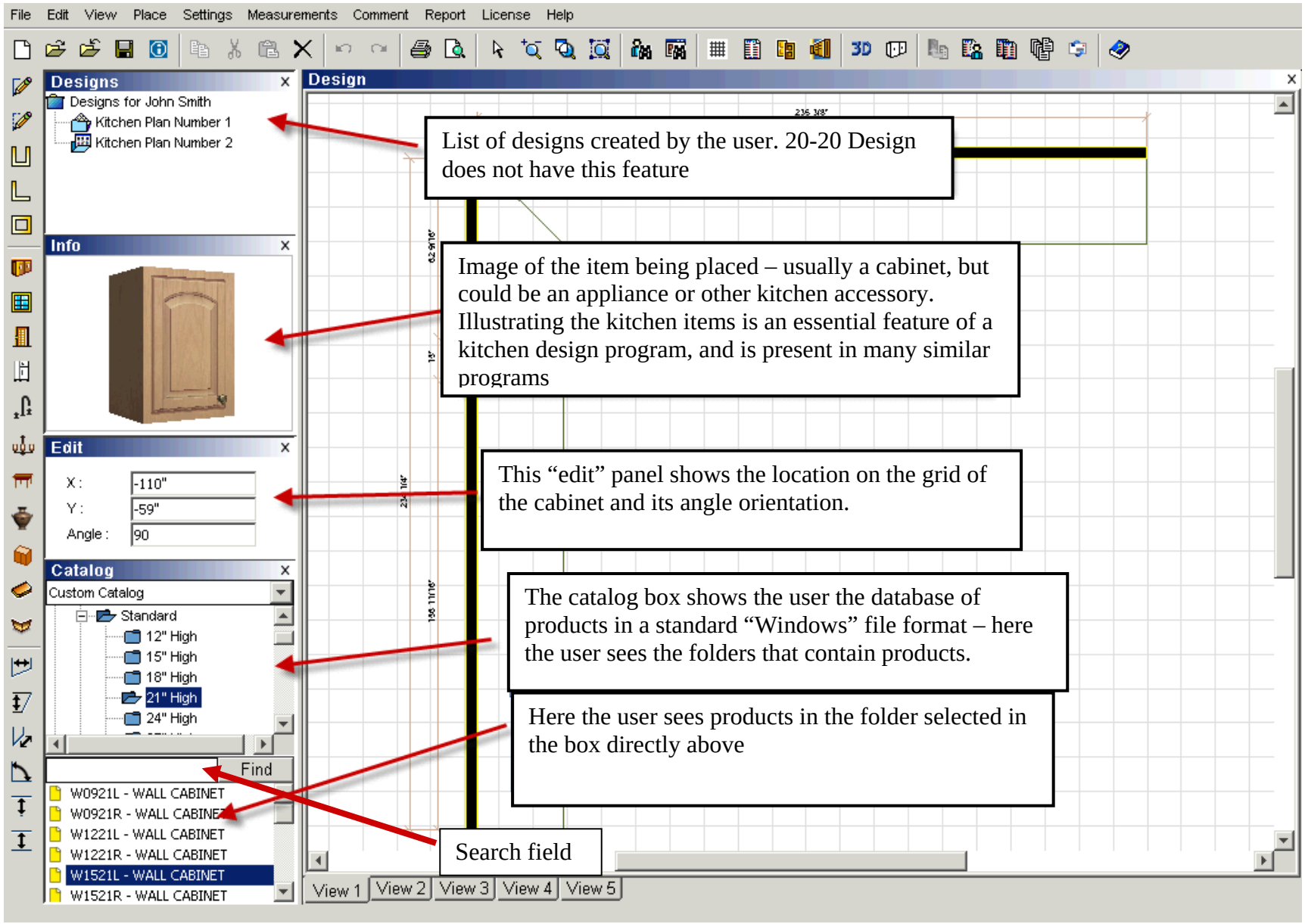
It is common for information relating to a project to be presented in sub-menus or panels on either the right or left side of the screen. The screenshots below show the two programs in a variety of modes – with panels, without panels, and with the panels in different locations. The screenshots also show the use of this feature in other computer aided design programs.

* References to Item 1, Item 2, and so forth, are based on the list of 46 items identified in the Expert Report of Dr. Randall Davis, submitted by 20-20 Technologies, Inc., as compiled by Real View. The complete list is Exhibit A to the Affidavit of Dr. Boris Zeldin.

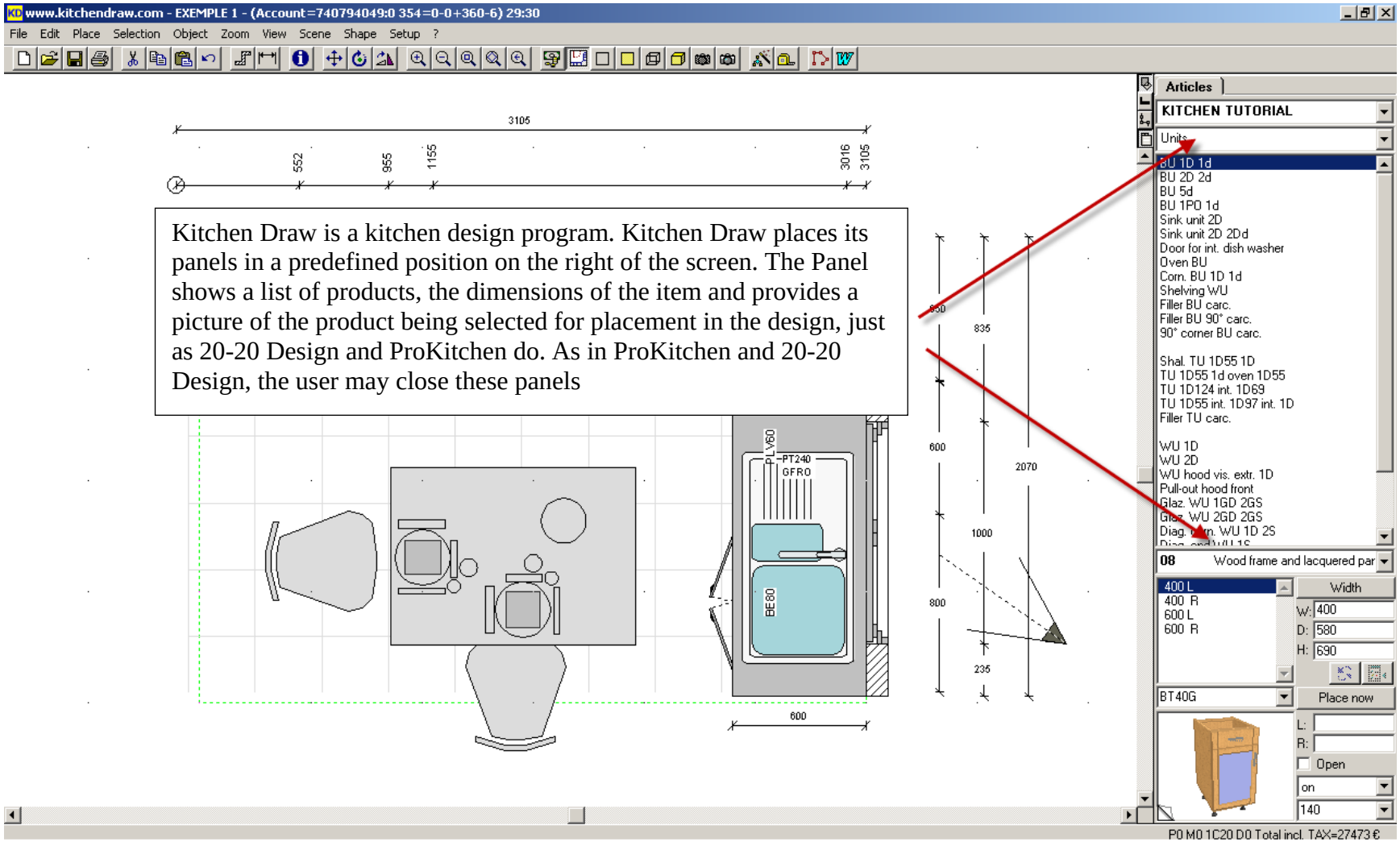
Overall Screen Layout - 20-20 Design **Report, Item 1**



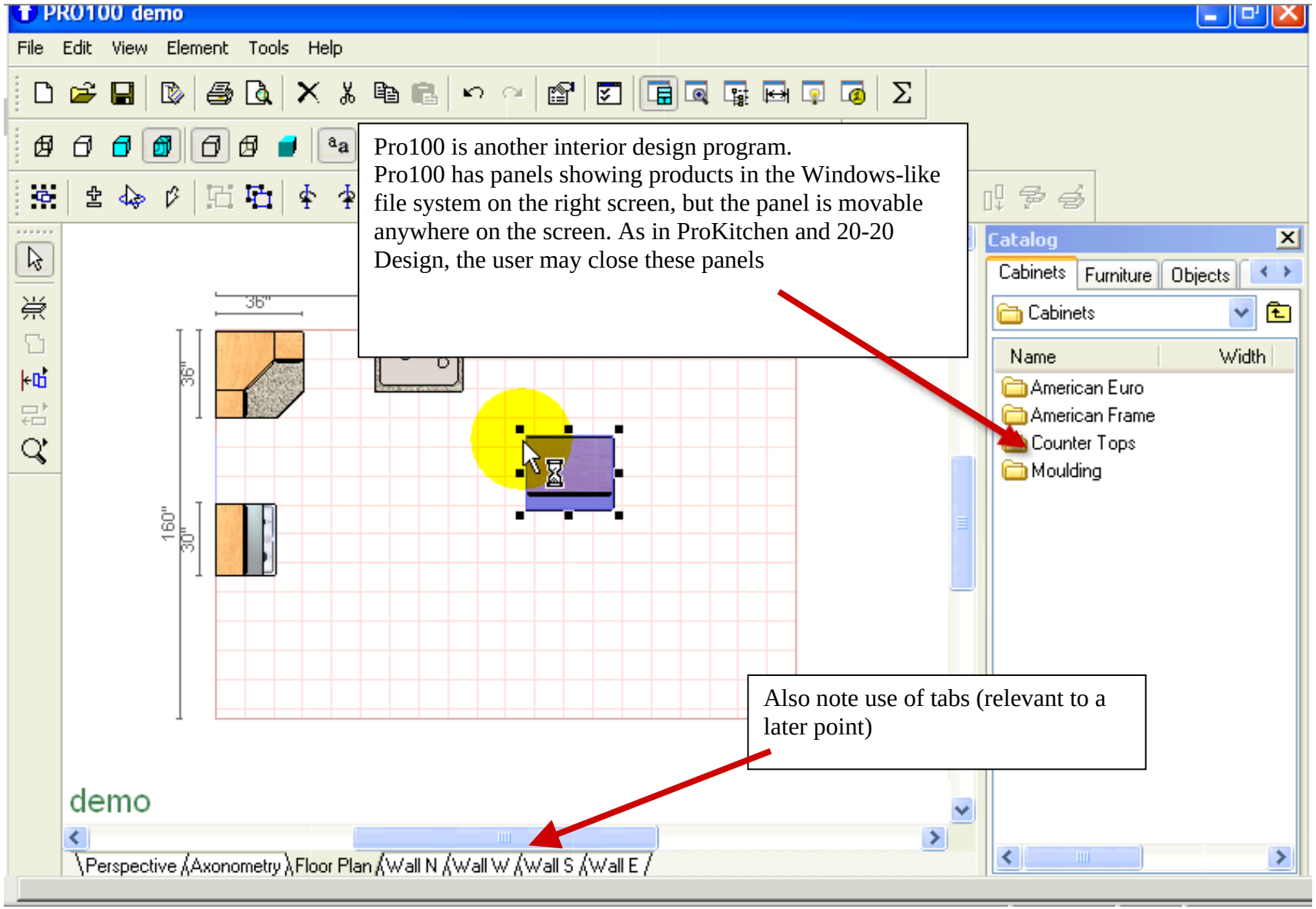
Overall Screen Layout - ProKitchen **Davis Report, Item 1**



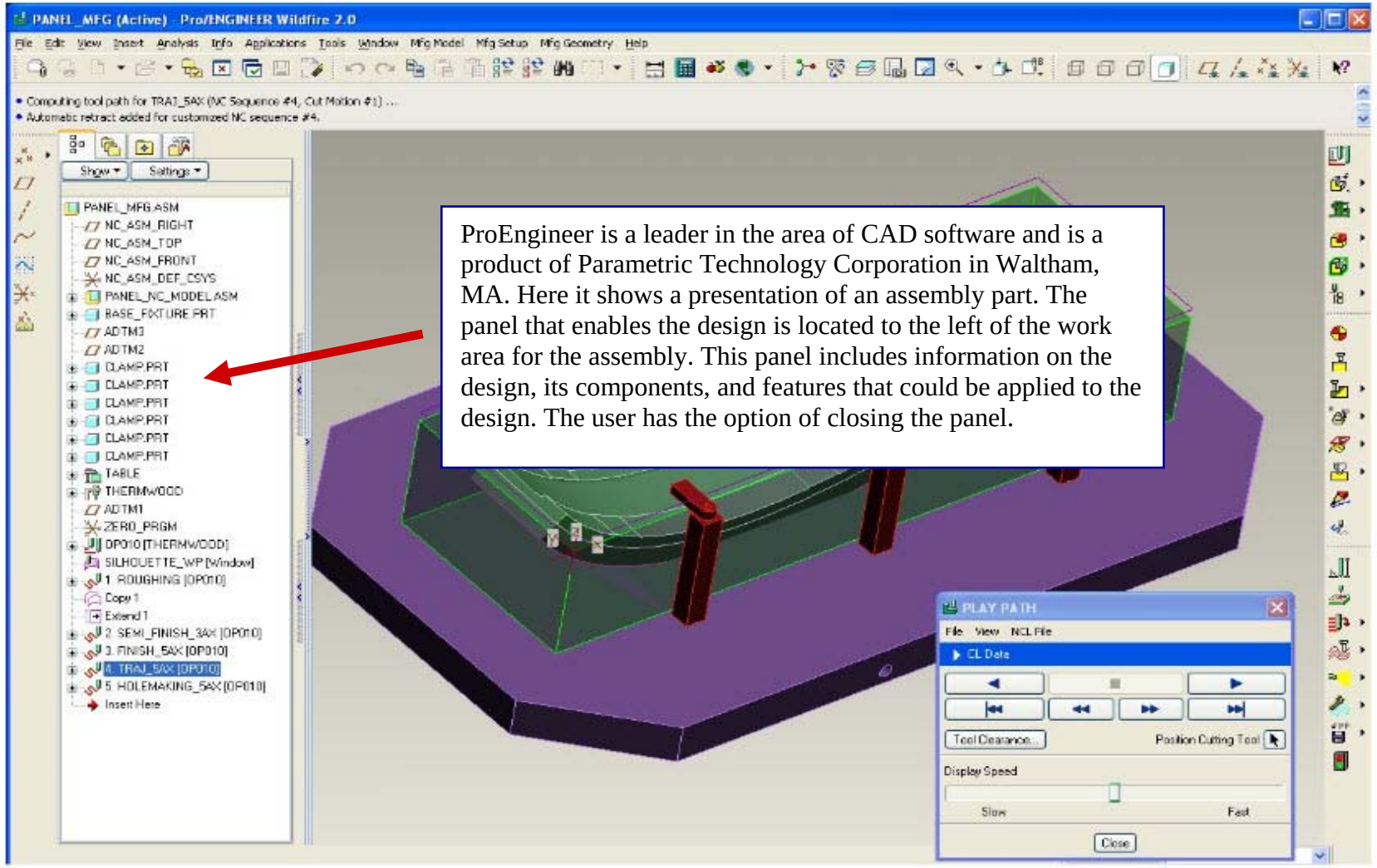
Overall Screen Layout - Kitchen Draw **Davis Report, Item 1**



Overall Screen Layout - Pro100 **Davis Report, Item 1**

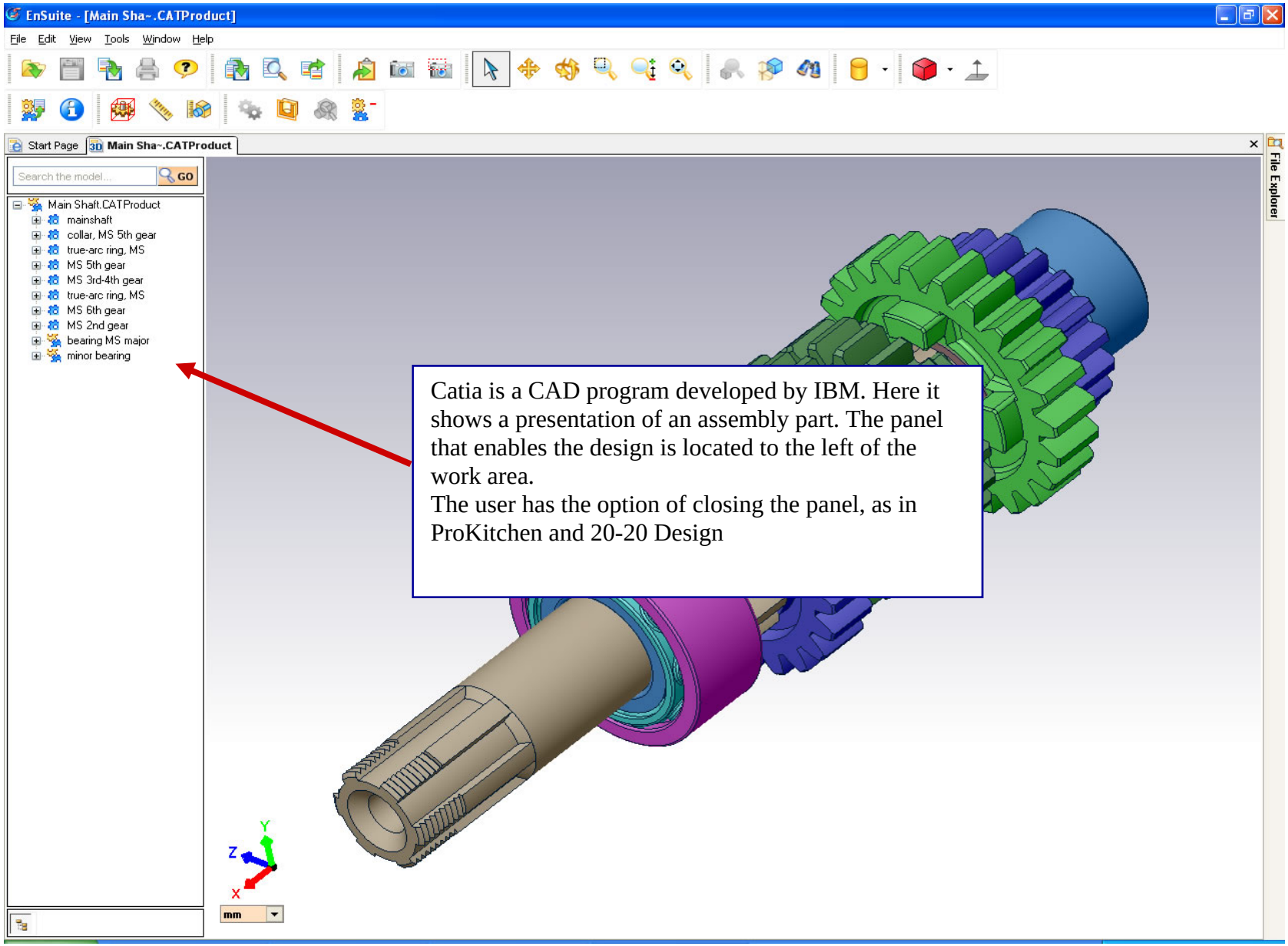


Overall Screen Layout - ProEngineer **Davis Report, Item 1**

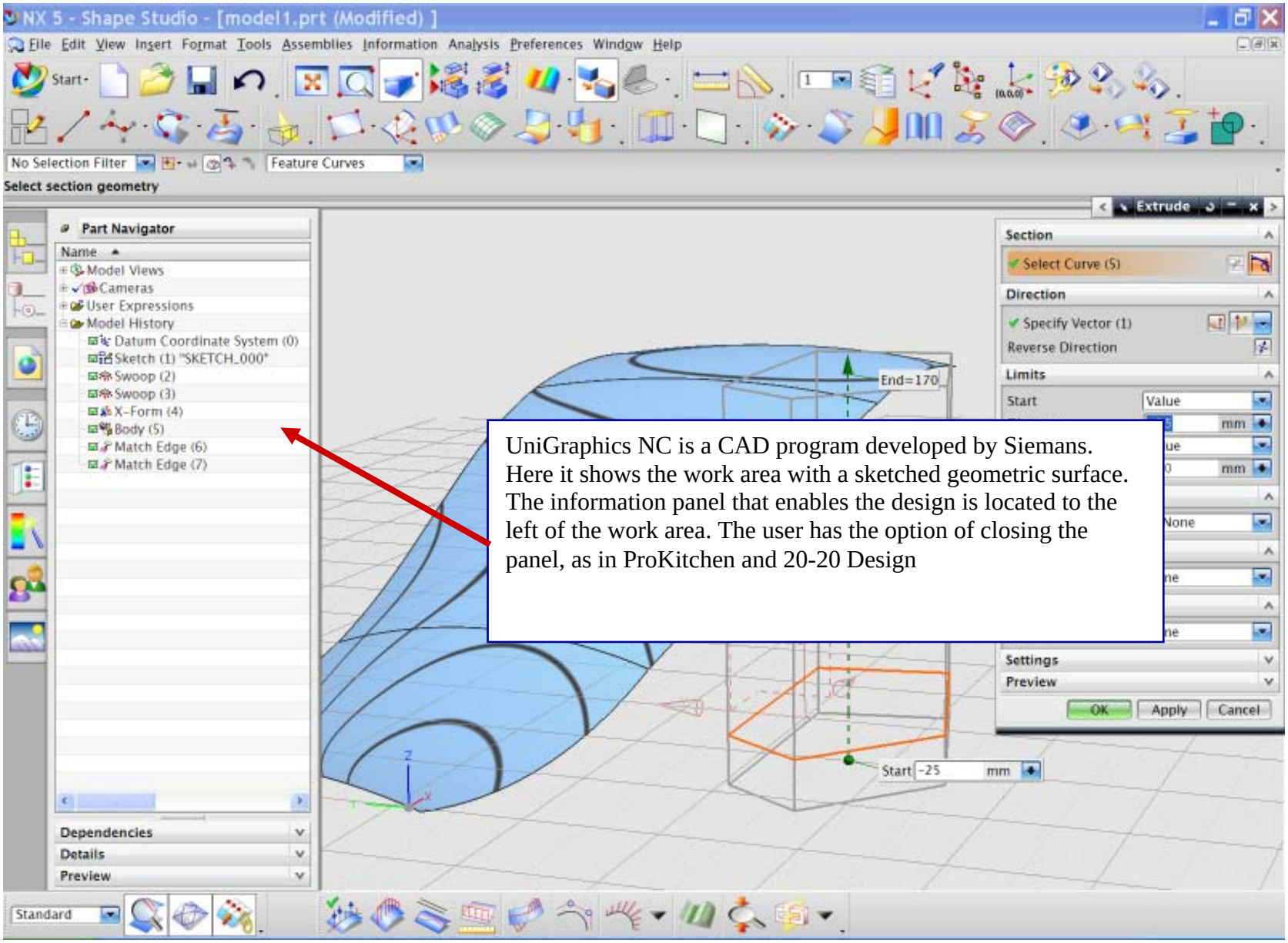


ProEngineer is a leader in the area of CAD software and is a product of Parametric Technology Corporation in Waltham, MA. Here it shows a presentation of an assembly part. The panel that enables the design is located to the left of the work area for the assembly. This panel includes information on the design, its components, and features that could be applied to the design. The user has the option of closing the panel.

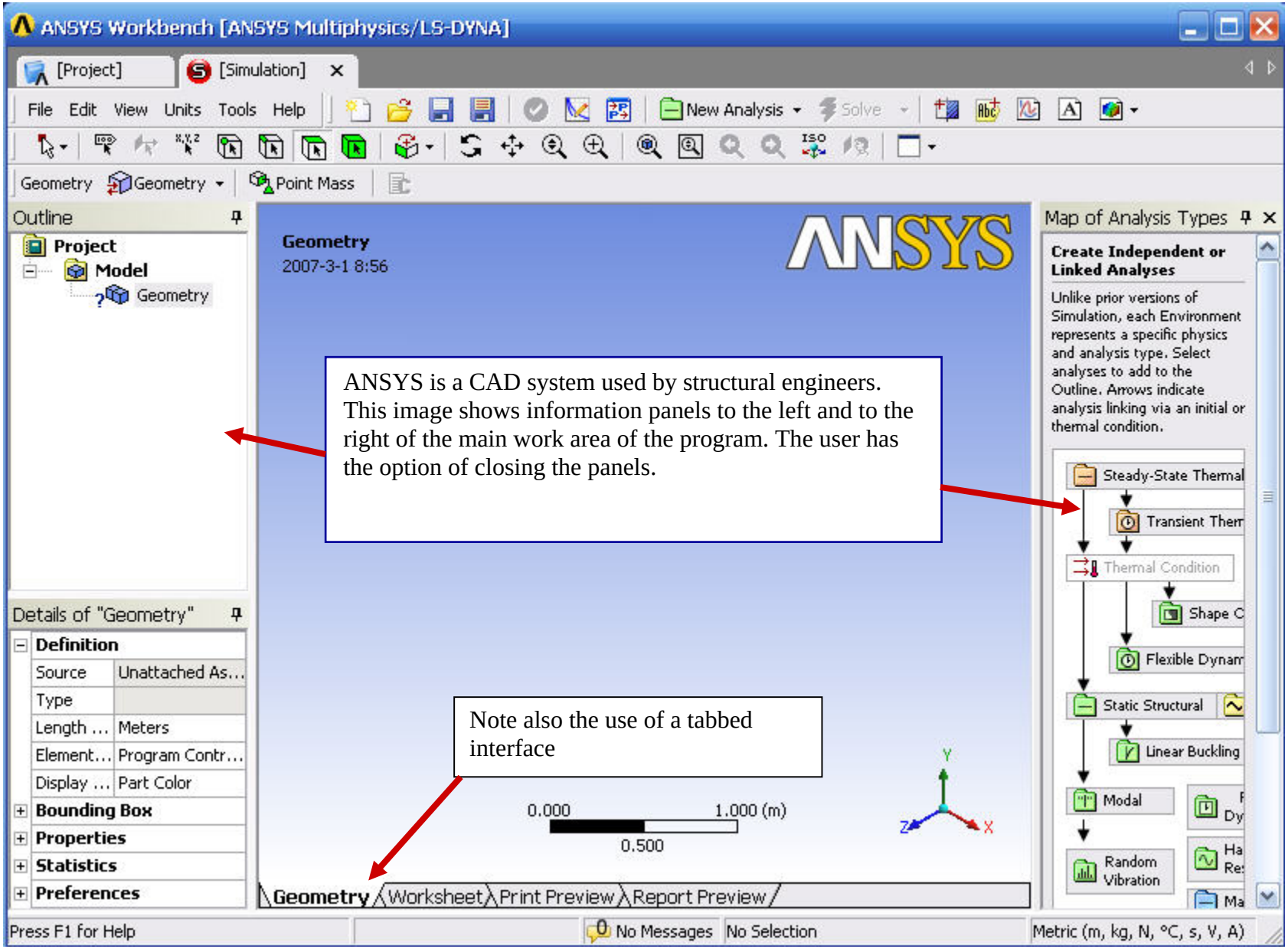
Overall Screen Layout - Catia **Davis Report, Item 1**



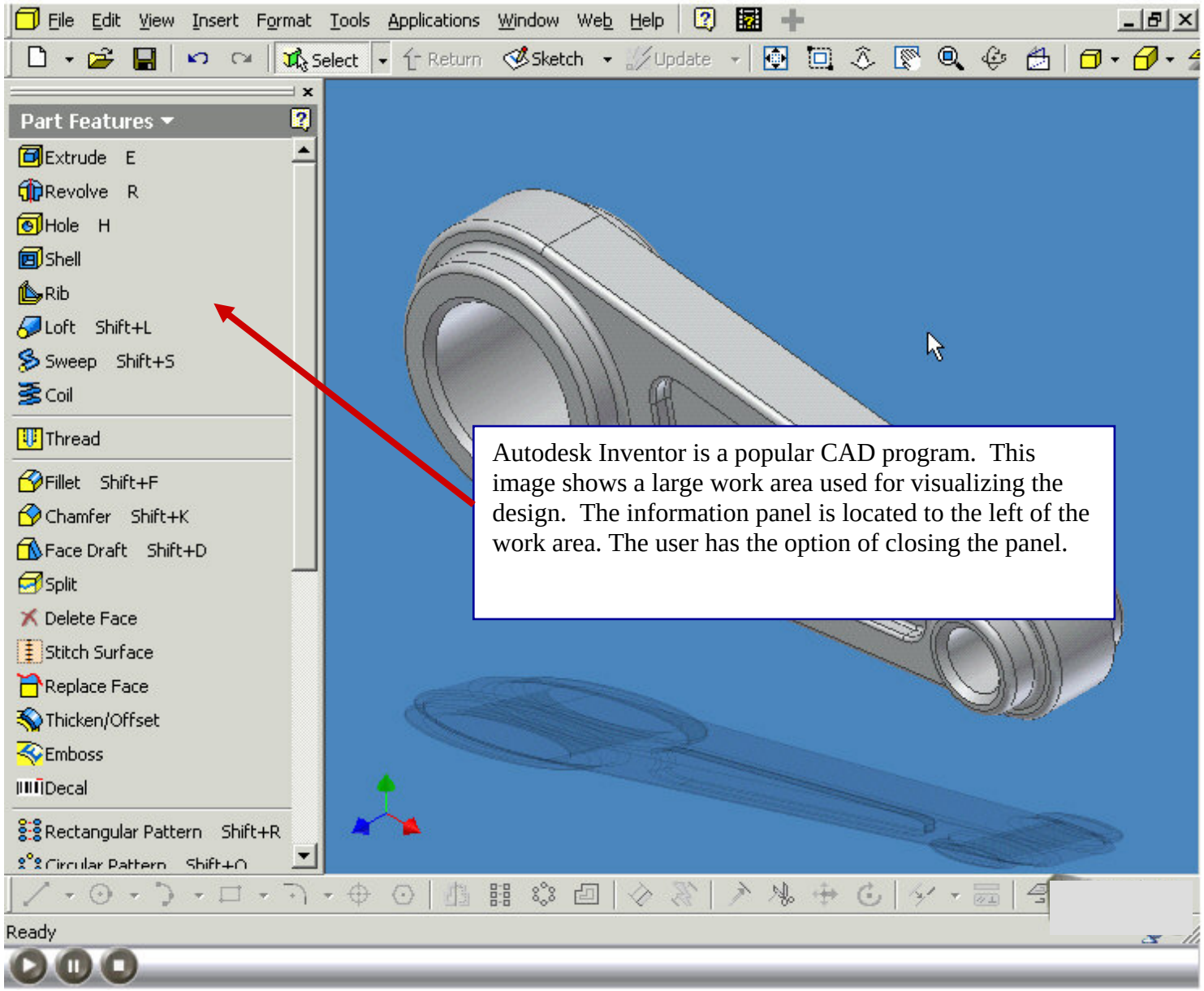
Overall Screen Layout - Unigraphics **Davis Report, Item 1**



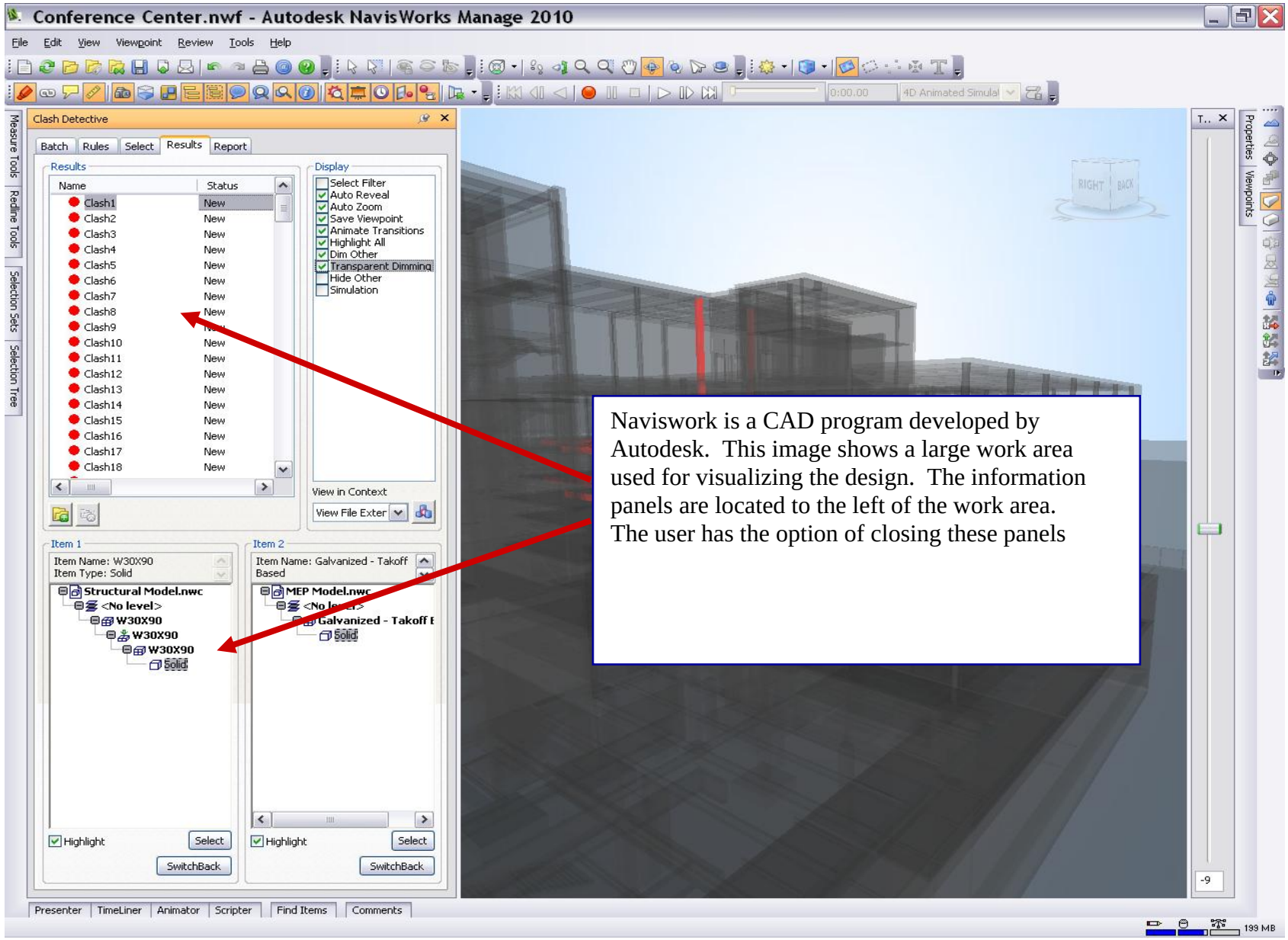
Overall Screen Layout - ANSYS **Davis Report, Item 1**



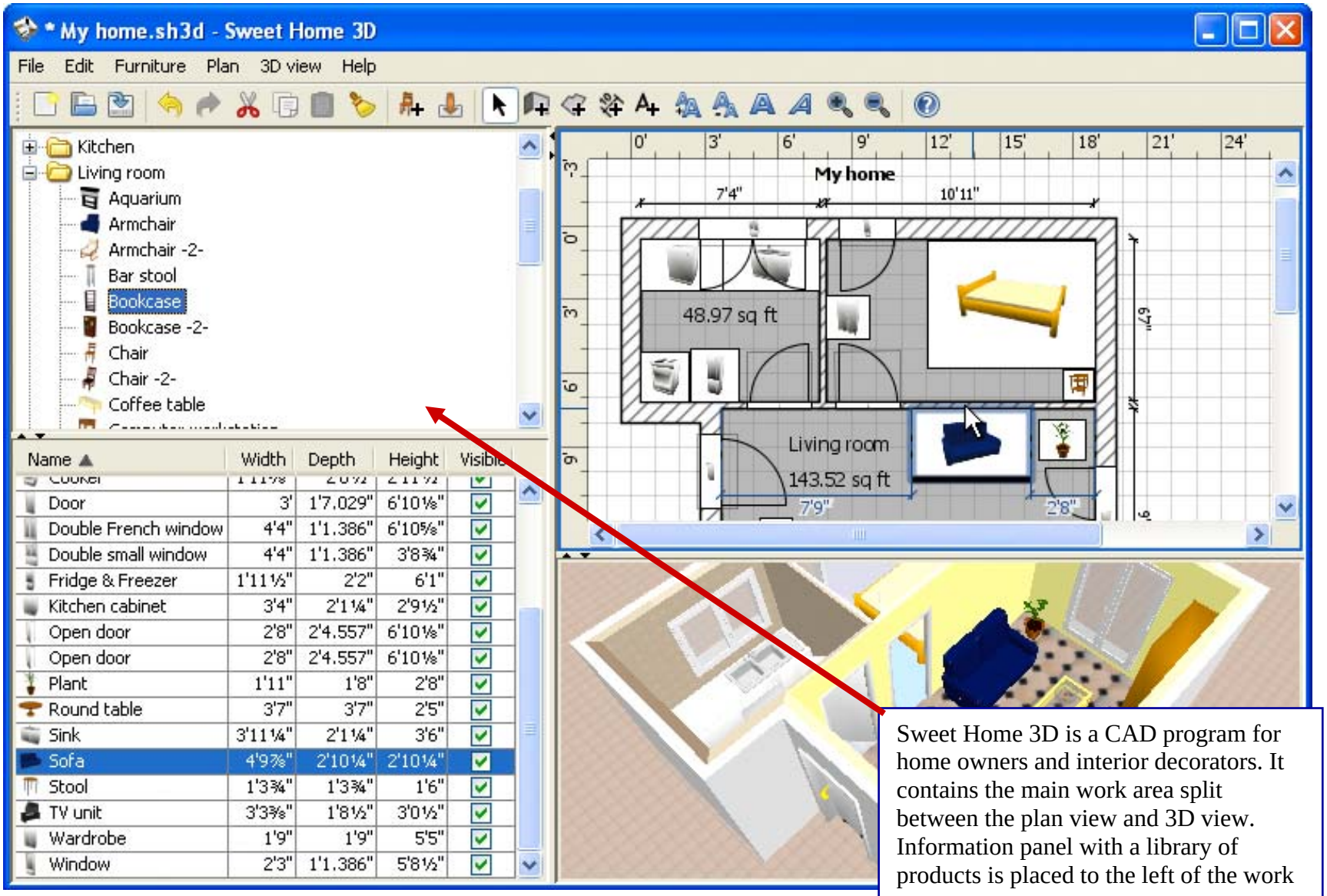
Overall Screen Layout – Autodesk Inventor **Davis Report, Item 1**



Overall Screen Layout – Autodesk Naviswork **Davis Report, Item 1**

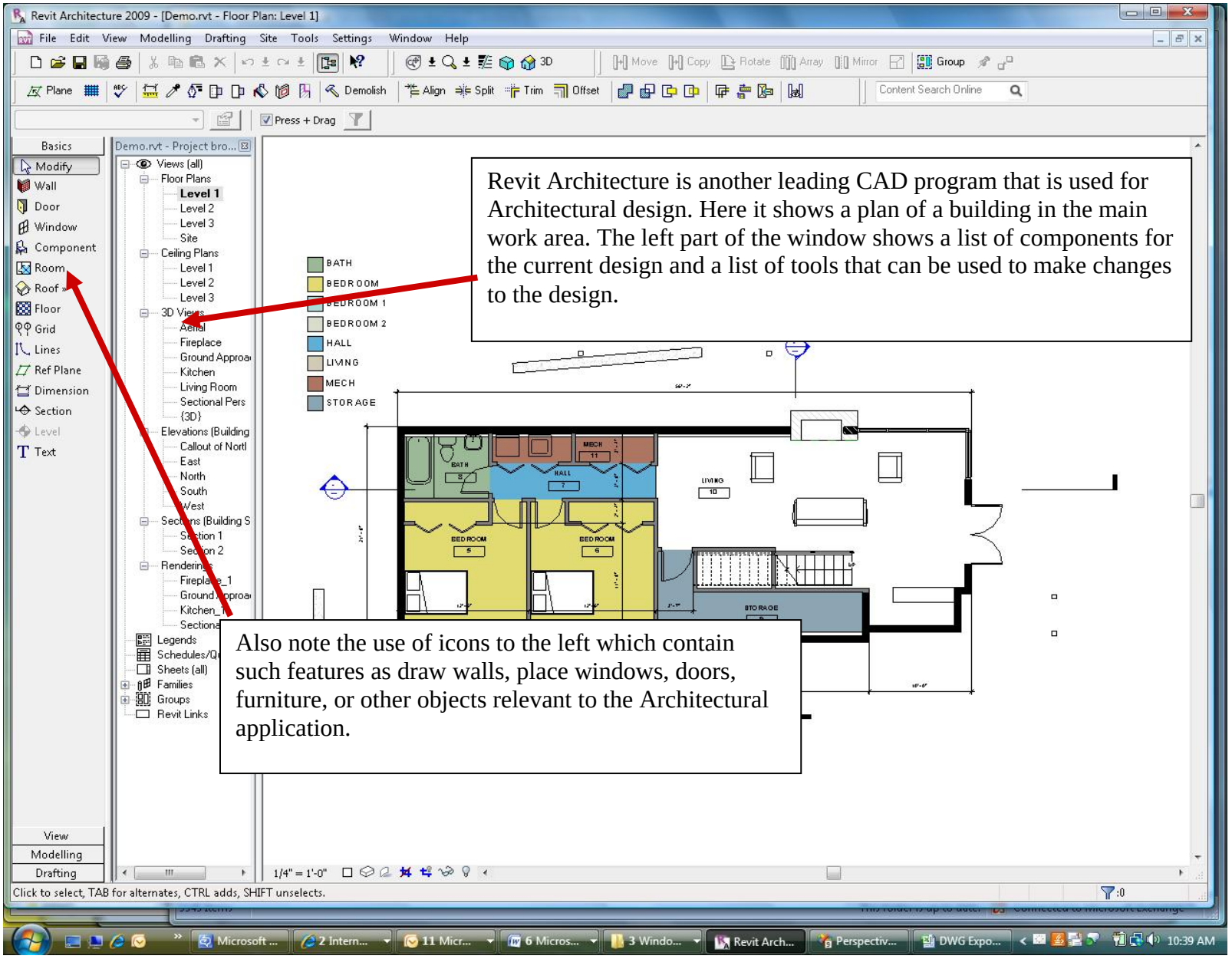


Overall Screen Layout – Sweet Home 3D **Davis Report, Item 1**

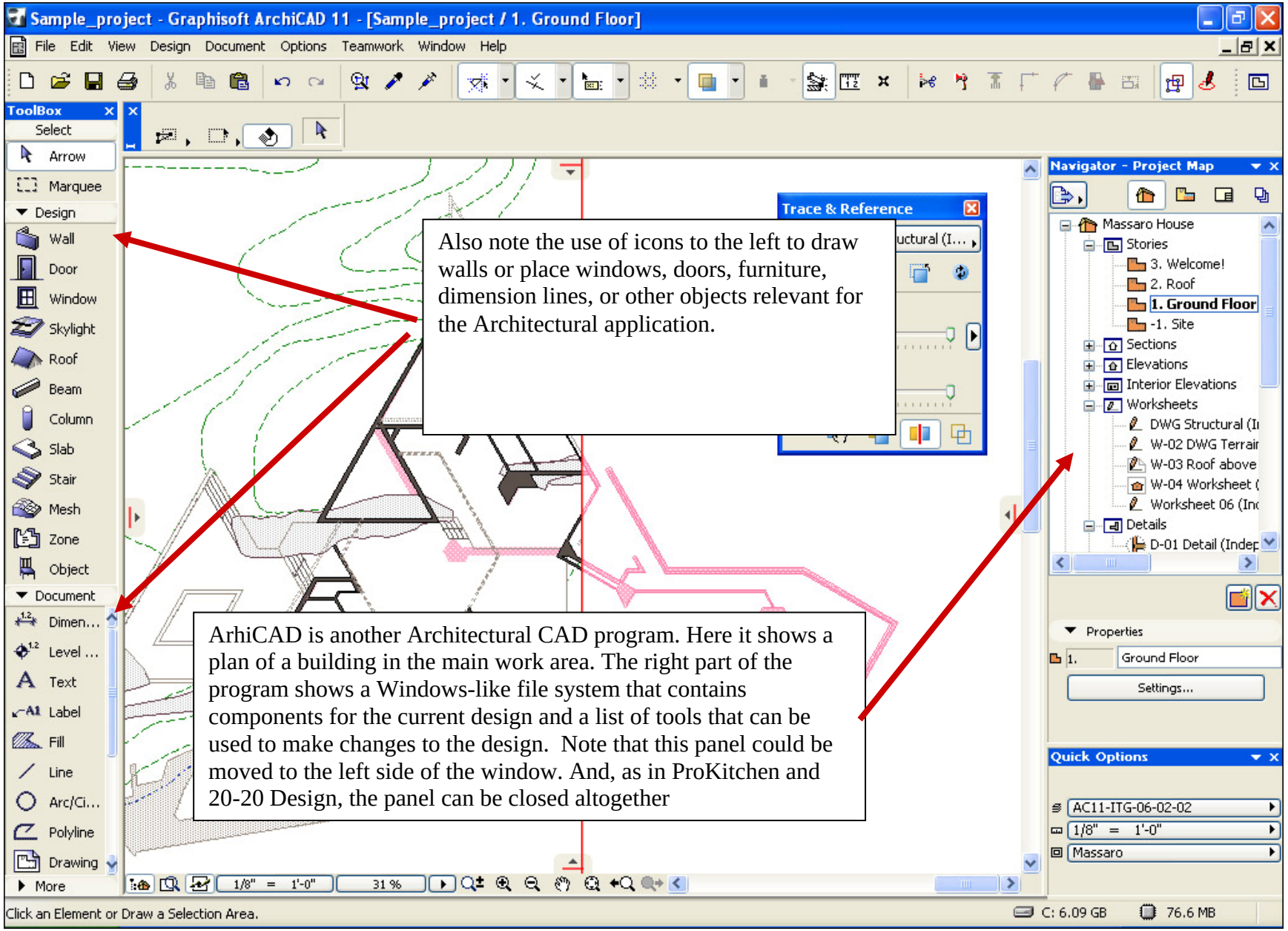


Sweet Home 3D is a CAD program for home owners and interior decorators. It contains the main work area split between the plan view and 3D view. Information panel with a library of products is placed to the left of the work area.

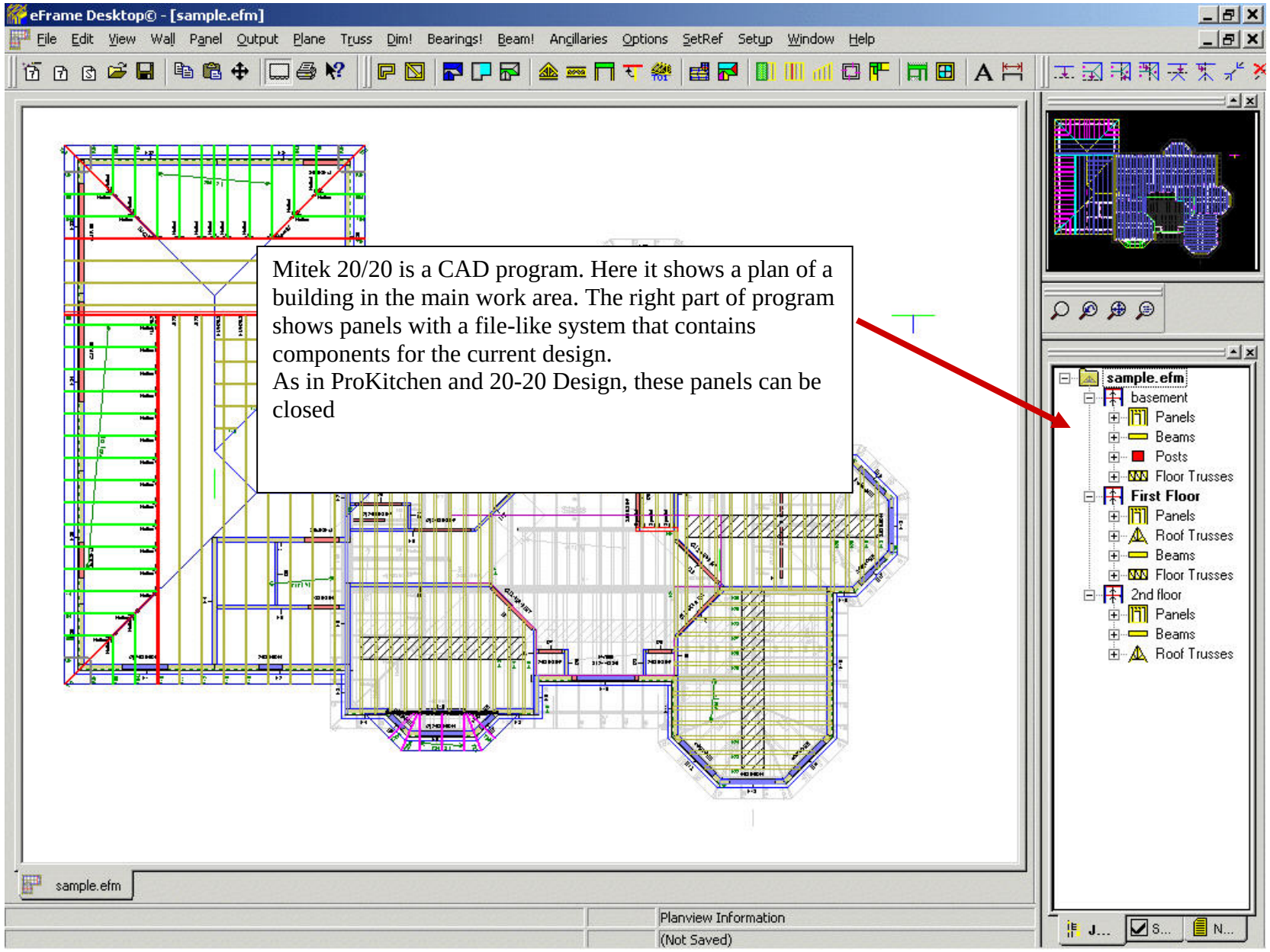
Overall Screen Layout - Revit Architecture **Davis Report, Item 1**



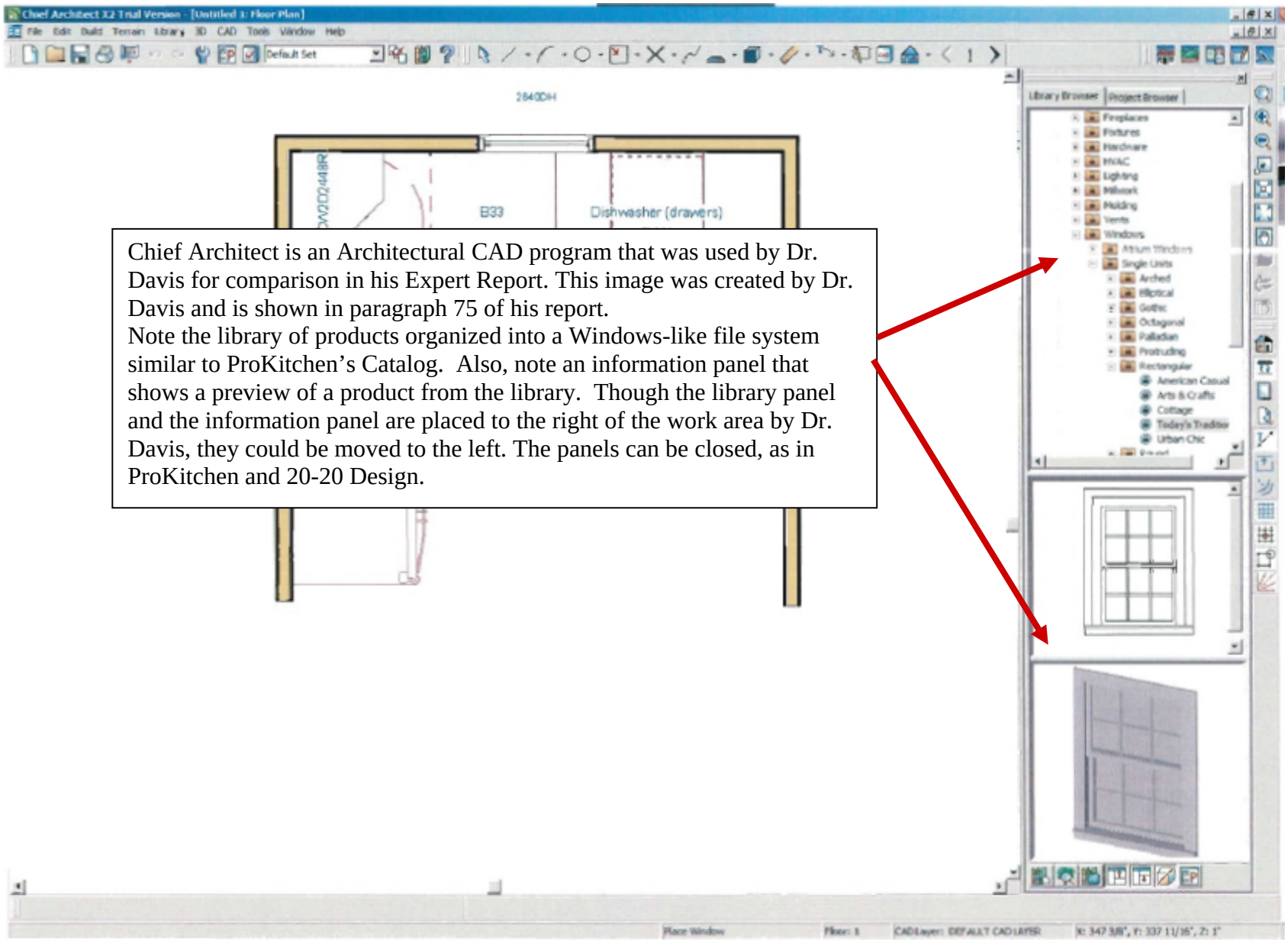
Overall Screen Layout - ArchiCAD **Davis Report, Item 1**



Overall Screen Layout - Mitek **Davis Report, Item 1**

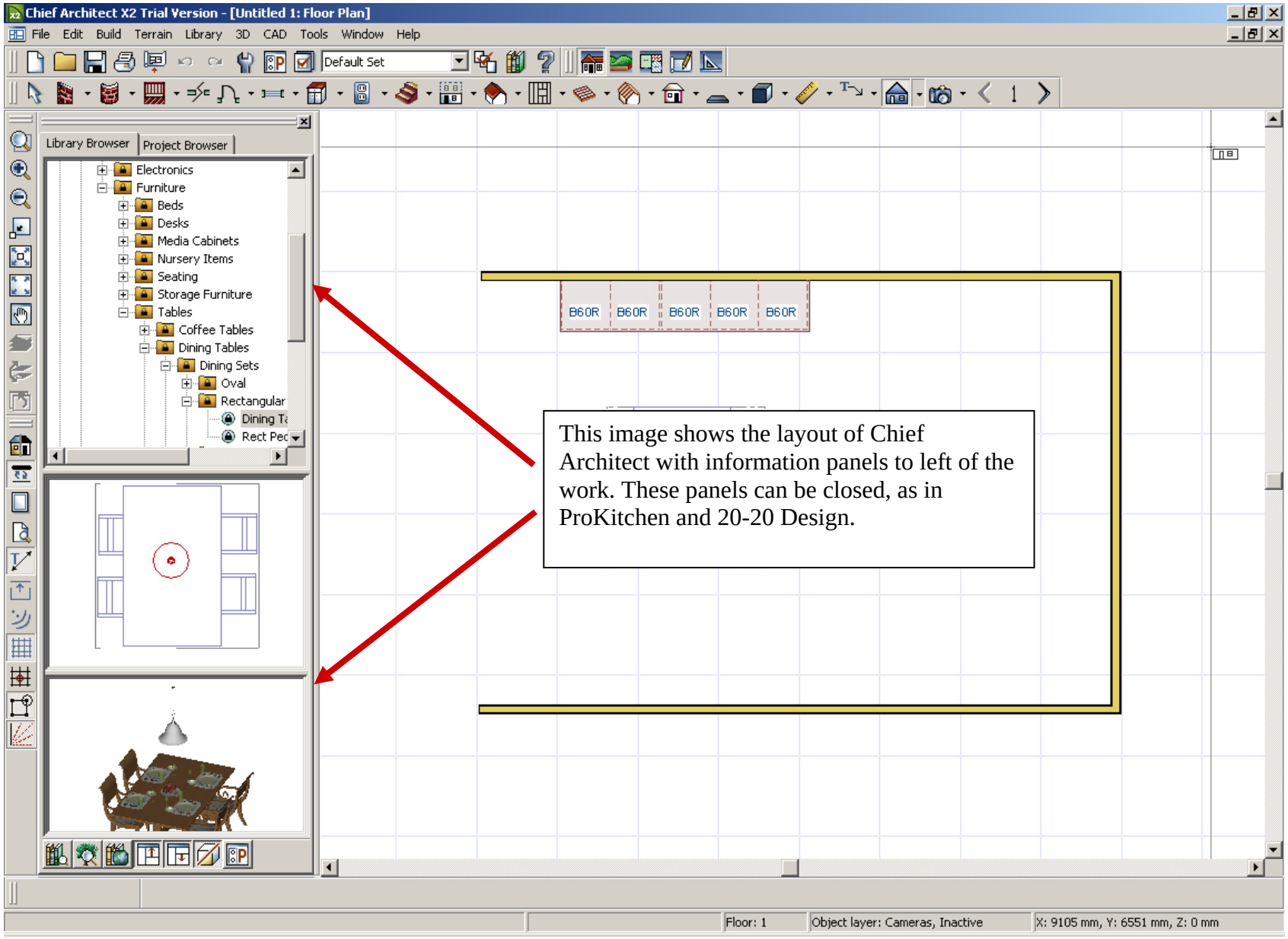


Overall Screen Layout – Chief Architect **Davis Report, Item 1**

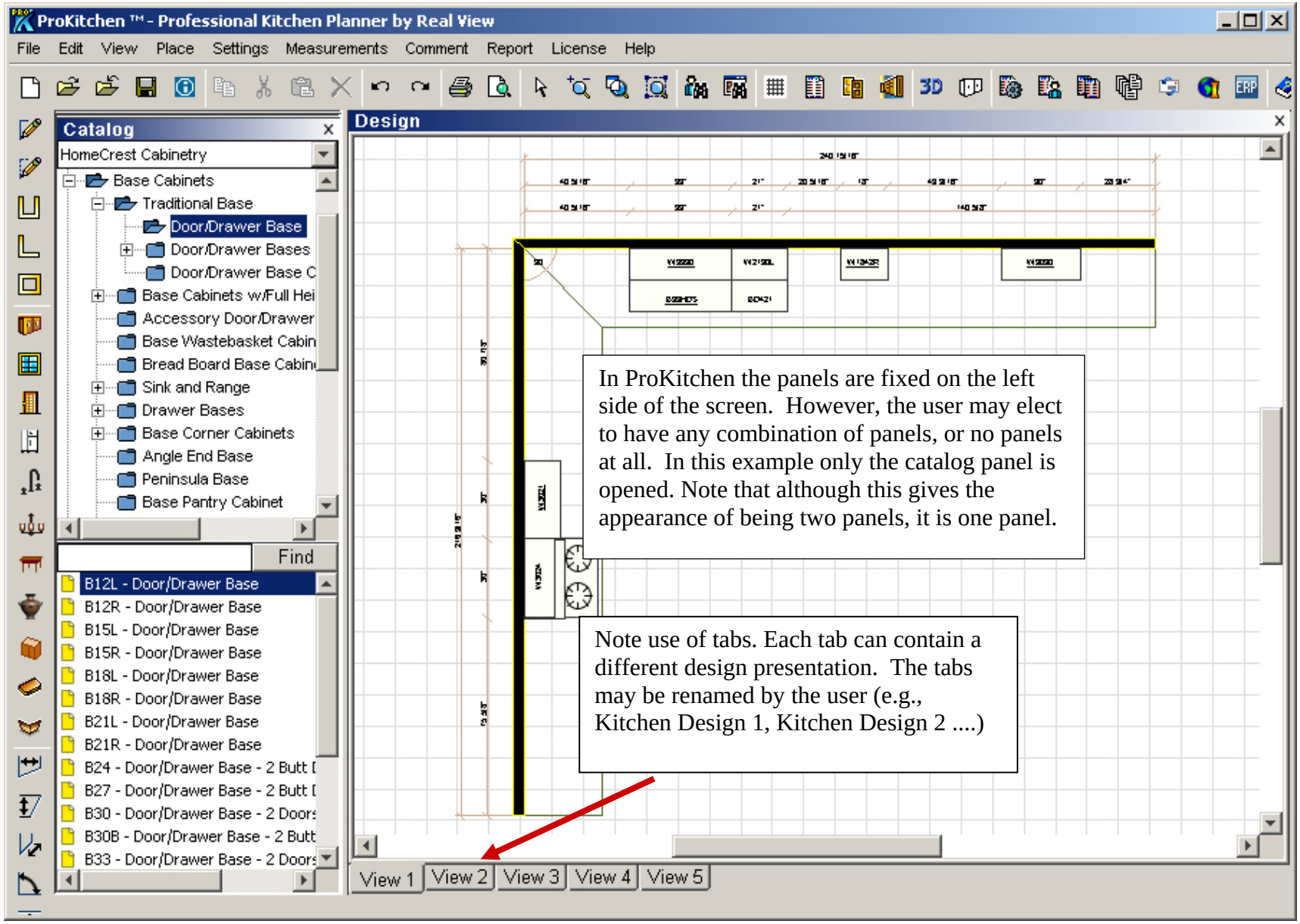


Chief Architect is an Architectural CAD program that was used by Dr. Davis for comparison in his Expert Report. This image was created by Dr. Davis and is shown in paragraph 75 of his report.
Note the library of products organized into a Windows-like file system similar to ProKitchen's Catalog. Also, note an information panel that shows a preview of a product from the library. Though the library panel and the information panel are placed to the right of the work area by Dr. Davis, they could be moved to the left. The panels can be closed, as in ProKitchen and 20-20 Design.

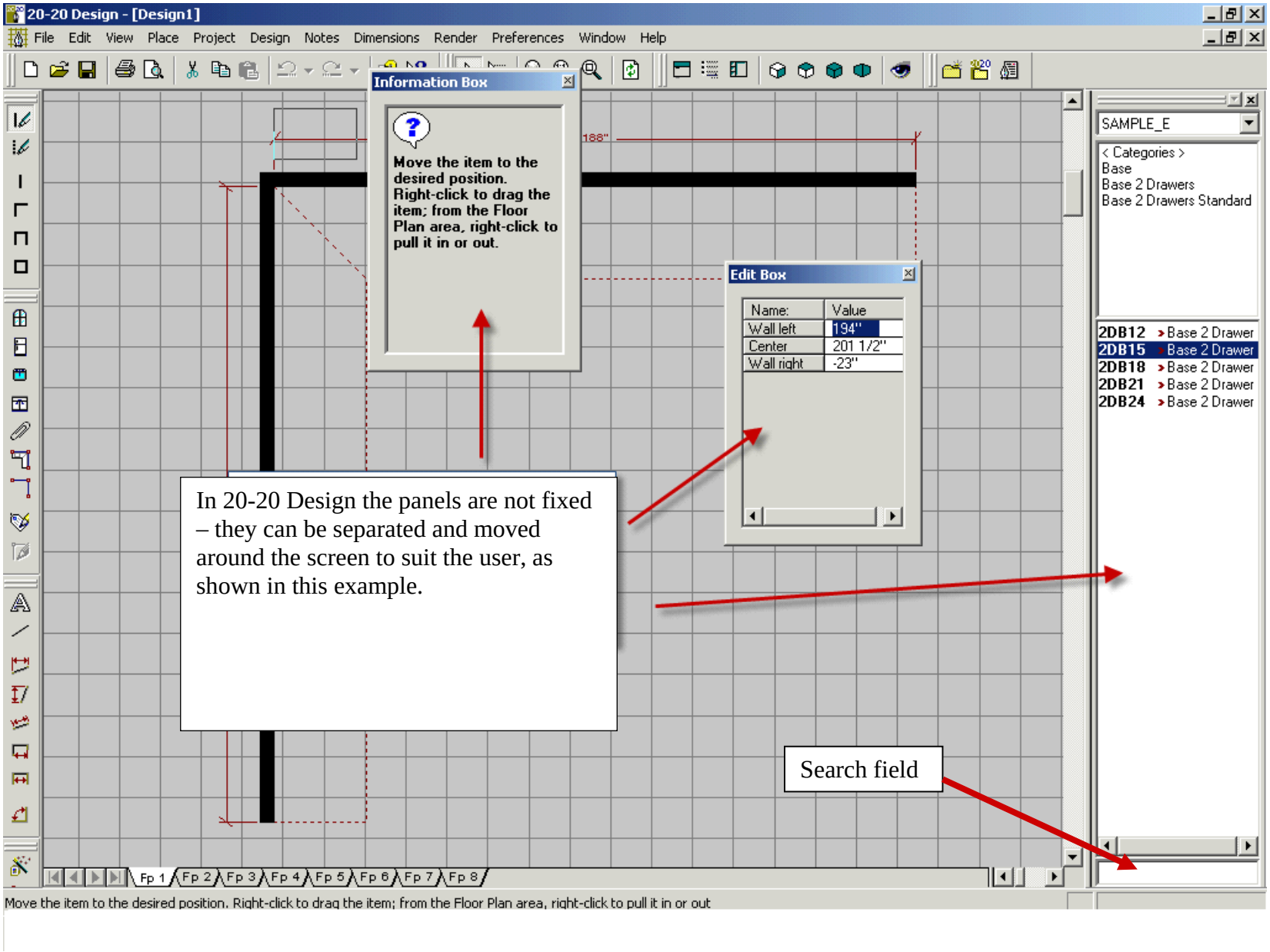
Overall Screen Layout – Chief Architect **Davis Report, Item 1**



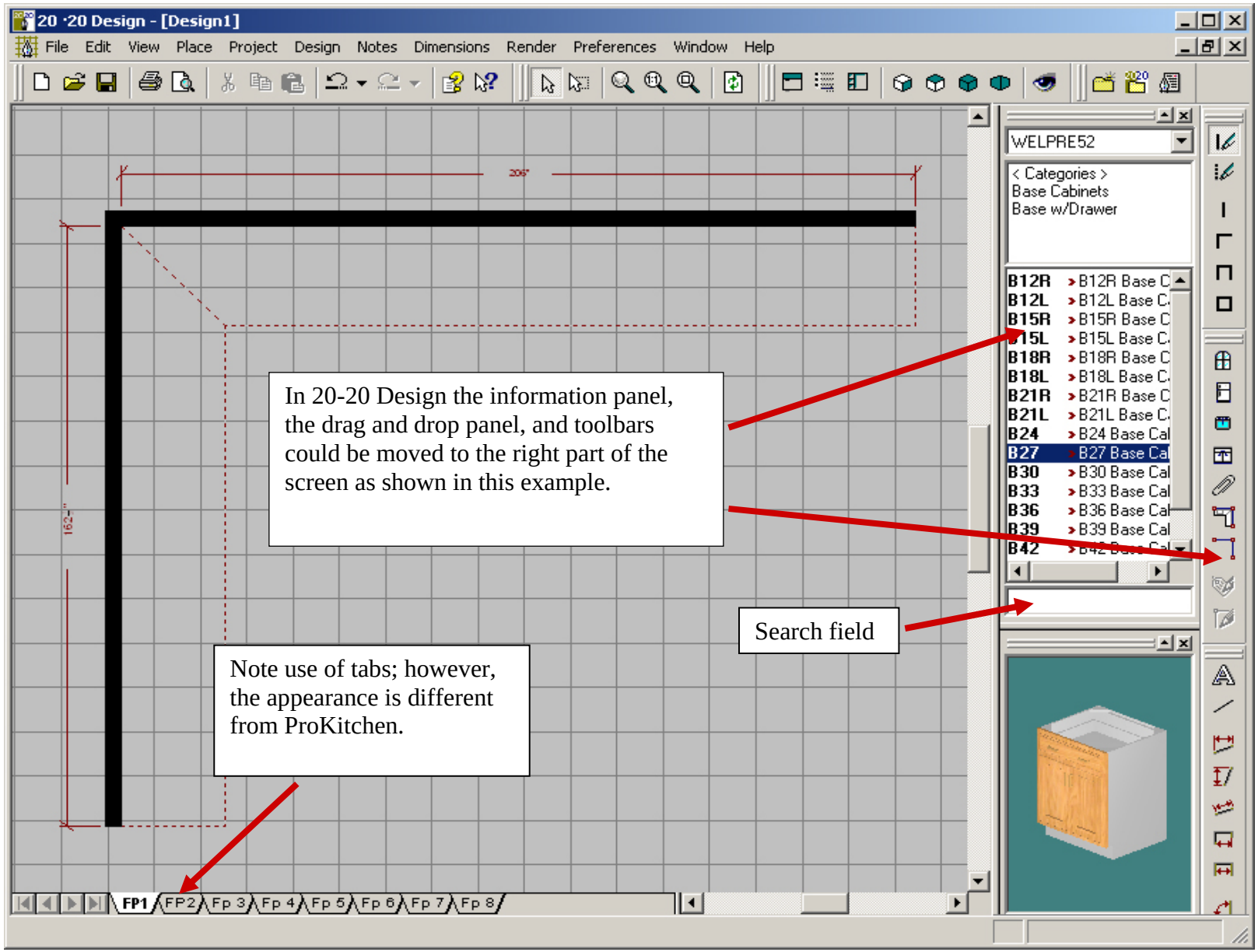
Overall Screen Layout - ProKitchen **Davis Report, Item 1**



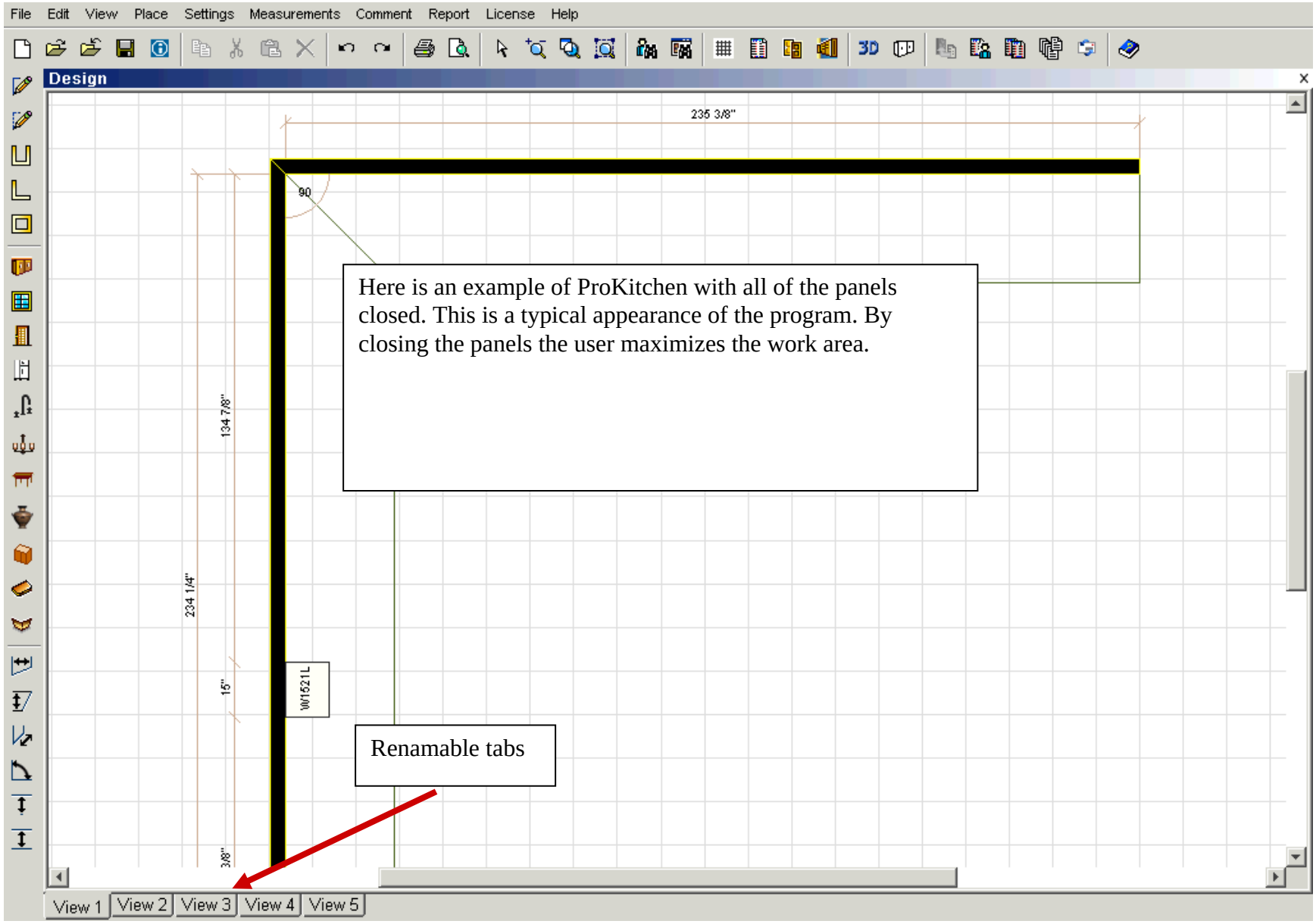
Overall Screen Layout - 20-20 Design **Davis Report, Item 1**



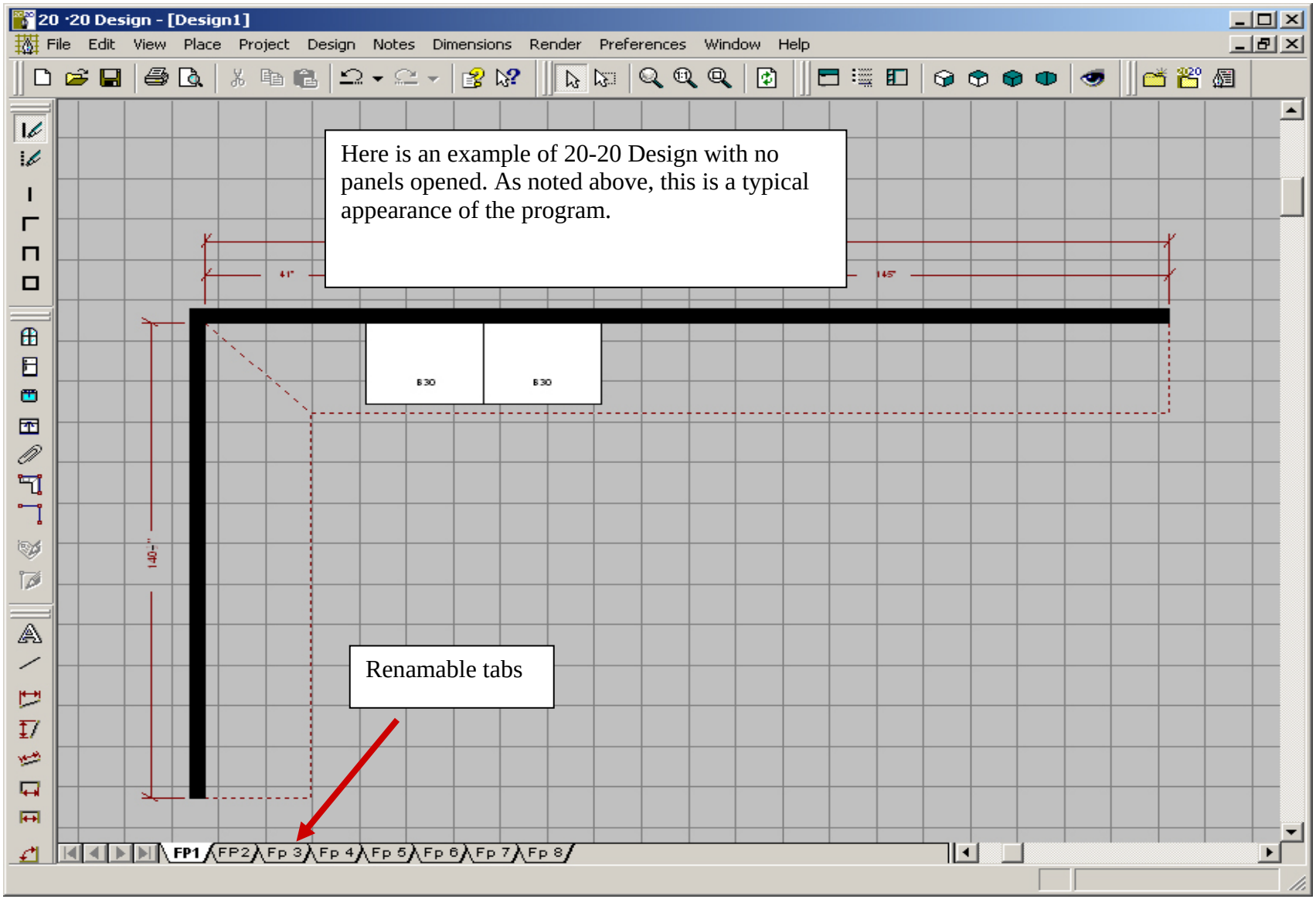
Overall Screen Layout - 20-20 Design **Davis Report, Item 1**



Overall Screen Layout - 20-20 Design **Davis Report, Item 1**



Overall Screen Layout – 20-20 Design **Davis Report, Item 1**

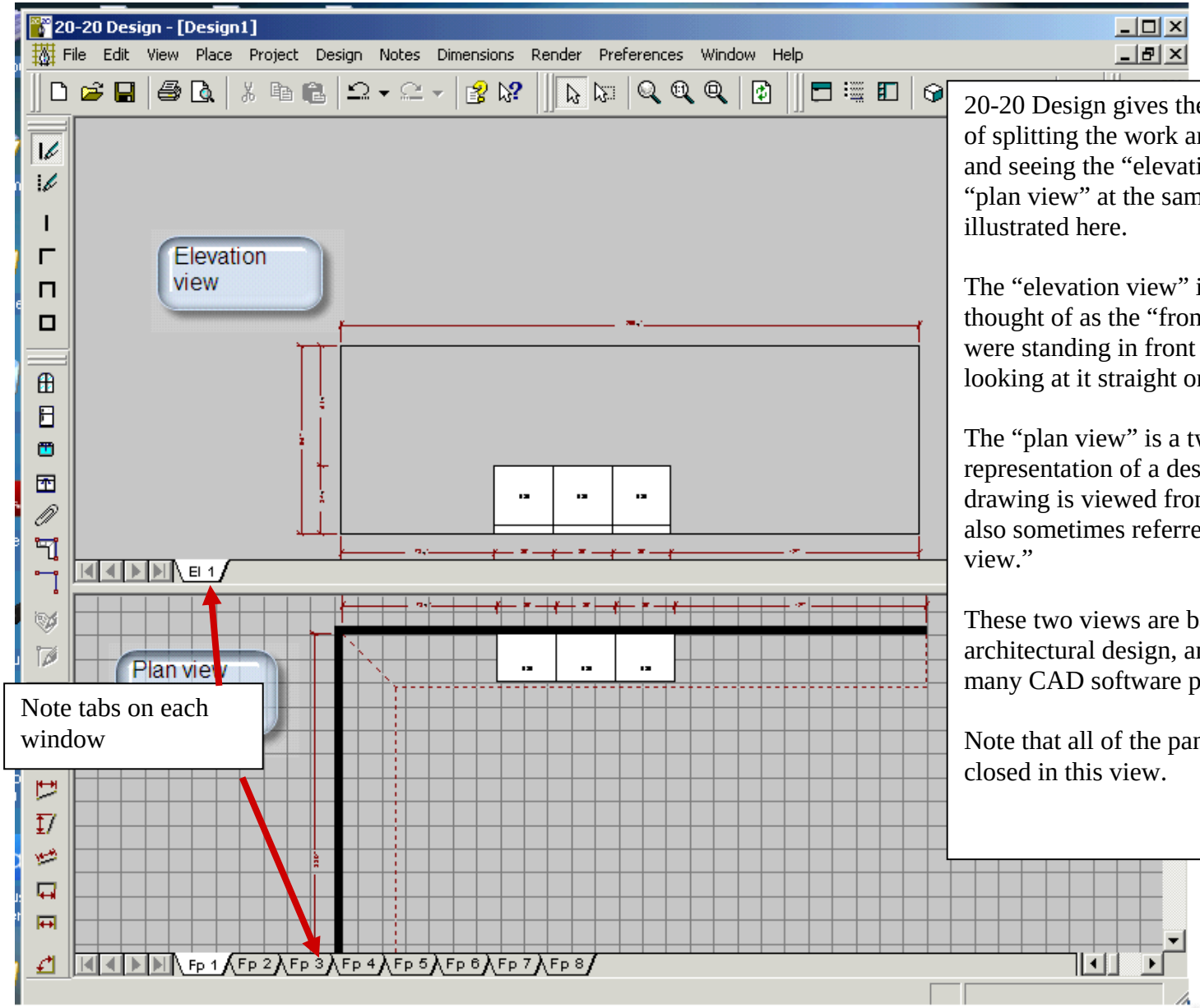


Main Window Subdivided into plan/elevation views and Simultaneous Updating **Davis Report, Items 2 & 3**

Creating “multiview” drawings of an object (more than two views at the same time) is common in computer aided design software.

Many CAD systems allow the user to see two or more views of a plan by splitting the screen, by switching between different views, or both. The screenshots below illustrate this feature for various software programs, including 20-20 Design, ProKitchen, Configura, Sweet Home 3D, Revit Architecture, and ArchiCAD.

Main Window Subdivided and Simultaneous Updating – 20-20 Design **Davis Report, Items 2 & 3**



20-20 Design gives the user the option of splitting the work area into halves, and seeing the "elevation view" and the "plan view" at the same time, as illustrated here.

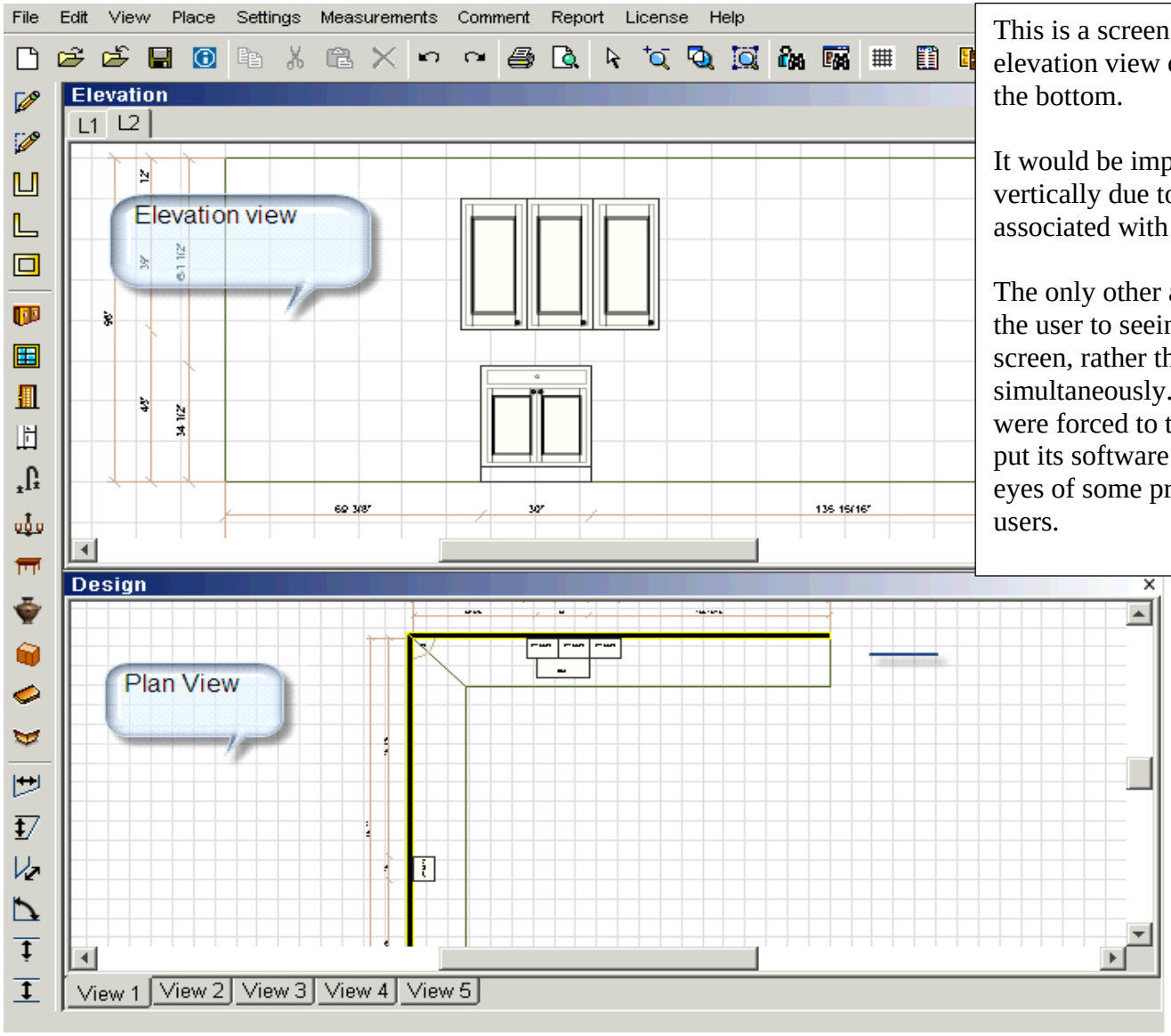
The "elevation view" is sometimes thought of as the "front view," as if you were standing in front of a wall and looking at it straight on.

The "plan view" is a two dimensional representation of a design in which the drawing is viewed from above. This is also sometimes referred to at the "top view."

These two views are basic to architectural design, and are present in many CAD software programs.

Note that all of the panels have been closed in this view.

Main Window Subdivided, and Simultaneous Updating – ProKichen **Davis Report, Items 2 & 3**



This is a screen shot of ProKitchen, with the elevation view on top and the plan view on the bottom.

It would be impractical to split the view vertically due to mathematical constraints associated with room dimensions.

The only other alternative would be to limit the user to seeing each "view" on a full screen, rather than see the two views simultaneously. However, if Real View were forced to take that approach it could put its software at a disadvantage in the eyes of some prospective customers or users.